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	Light Source	Emiss Wave Wa	Wavelength Region Intensity	
8	3M Deluxe Transparency Maker Light Source	400 - 1200	E,F,G,H,I,J,K	
4	558nm LED arrays	200 - 000	P,G	
9	569nm LED arrays	920 - 600	o	
4	590nm LED arrays	550 - 650	Н'9	
2	602nm LED arrays	907 - 029	I	
4	615nm LED arrays	900 - 650	I	
0	637nm LED arrays	900 - 200	Ť	
4	644nm LED arrays	002 - 009	Ļ	
4	Bluepoint	300 - 600,940 - 1150	C,D,E,F,G	
Ø	Dental 3M-ESPE Elipar Trilight	400-500	D,E	
4	Dental 3M-ESPE Freelight LED	430-515	ш	
4	Dental 3M LED Prototype	450-520	D,E,F	
Ø	Dental Akeda LUX-O-MAX LED	420 - 560	D,E,F	
4	Dental Apollo 95E Arc	440 - 520	ш	
4	Dental Apollo E LED	420 - 550	E,F	
4	Dental Blue Light	400 - 500	D,E	
4	Dental LaserMed Accucure 3000 Laser	460 - 510	Ш	
8	Dental Yellow Light	370 - 800,950 - 1100	E,F,G,H,I,J,K	
4	Flood Lamp	350 - 1200	D,E,F,G,H,I,J,K	
A	Fusion D Bulb	300 - 450,500 - 600	B,C,D,F,G	
Ø	Fusion H Bulb	250 - 450,550 - 600	A,B,C,D,G	
	Fusion Q Bulb			
	Fusion V Bulb	400 - 450,550 - 600	D,G	
4	General Electric Blacklight (black)	350 - 400	ပ	
4	General Electric Blacklight (white)	350,400,435,545	ပ	
4	General Electric Cool Light	400 - 700,> 960	F,G,H	
4	General Electric Daylight	390 - 700	D,E,F,G,H	
	General Electric Germidical	253	4	
	Gro & Sho Plant Light	400 - 700	D,E,F,G,H,I	
	Kodak Carousel 5200 Projector	450 - 700,950 - 1100	E,F,G,H,I,J,K	
8	Kodak Carousel 5600 Projector	450 - 750,950 - 1100	E,F,G,H,I,J,K	
4	Lesco Light (with new filter)	300 - 650	В,С,D,Е,F,G,Н	
4	Lesco Light (with old filter)	285 - 500,570 - 600	B,C,D,E,G	
4	NIS Black Light Blue	300 - 400	B,C	
4	PDSC 2920 200W Hg Light	300 - 450,550 - 600	B,C,D,G	
0	PDSC 930 200W Hg Light	300 - 000	B,C,D,E,F,G	
0	Philips 3000K Ultralume	400 - 650,970 - 1000,1080 - 1100	D,E,F,G,H,K	
		•		

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Figer 7

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Name

Solvent Used Curing Abs. Wavelength Wavelength Region Lambda maExt. Coef Real Ext. (I/mol Mechanism (nm) (W%) cm)

								The first of the community of the commun
Initiator								
6 methyl 2,4 bistrichloro methyl s triazine	Acetonitrile	œ	<350	A,B	272	13		(
CD 1010 (triarylsulfonium SbF6)	Acetonitrile	ပ	<320	A,B	300	80		(-
CD1011 (triarylsulfonium PF6)	Acetonitrile	ပ	<320	A.B	300	100		というでし
(a CD1012 (diaryliodonium SbF6)	Acetonitrile	ပ	<330	. ⋖	250	150		
CoFe (benzene) PF6	Acetonitrile	ပ	<350	A.B.C.D.E.F	240	258		
Cope (durene) SbF6	Acetonitrile	O	<350	A.B.C.D.E	244	184		
	Acetonitrile	ပ	<350	A.B.C.D.E.F	324	13		
CpFe (Mes) PF6	Acetonitrile	ပ	<320	A'B	244	231		
CpFe (Mes) SbF6	Acetonitrile	ပ	<350	A,B	244	188		
CpFe (Nap) SbF6	Acetonitrile	ပ	<400	A,B,C,D,E,F,G	220	400		
CpFe (pyrene) SbF6	Acetonitrile	ပ	<500	A,B,C,D,E,F,G	334	295		
CoFe (toluene) PF6	Acetonitrile	ပ	<320	A.B.C.D.E	242	257		
	Acetonitrile	ပ	<350	A,B,C,D,E	242	278		
-	Acetonitrile	ပ	<350	A.B.C.D	242	254		
	Acetonitrile	O	<350	A.B.C.D	242	205		
	Acetonitrile	œ	<400	A,B,C	380	9	172	
	Acetonitrile	œ	<400	A.B.C	320	141	5021	
	Acetonitrile	œ	<430	A.B.C	390	1.3	34	
_	Acetonitrile	~	<370	A'B	326	3.5	95	
In Irgacure 261	Acetonitrile	ပ	<500	A,B,C,D,E	388	8	106	
In Irgacure 2959	Acetonitrile	œ	<300	∢	272	481	13839	
In Irgacure 369	Acetonitrile	œ	260 - 400	A,B,C	320	456	21538	
Ingacure 651	Acetonitrile	œ	312 - 394	A,B,C	342	ھ	257	
Ingacure 784	Acetonitrile	œ	<550	A,B,C,D,E	395	19	1300	
Irgacure 819	Acetonitrile	œ	<450	A,B,C,D	370	17	918	
In Irgacure 907	Acetonitrile	œ	250 - 350	A,B	304	492	17635	
₽ KB1	Acetonitrile	œ	312 - 394	A,B,C	342	8	257	
Ki 85 (Purified triarylsulforium PF6)	Acetonitrile	ပ	<320	A,B	290	56		
Triphenylsulfonium SbF6	Acetonitrile	ပ	<350	A,B	300	183		
Tris (N-itroso-n-phenythodroxylamine)	Acetonitrile	ď	350 - 500	A,B,C,D,E	320	36		
🐚 XL 353 (triazine)	Acetonitrile	œ	270 - 400	A,B,C	352	280		
Sensitizer								
4-Benzophenonethiol	Acetonitrile	œ	<320	A,B	294	640		
4,5-Dibromofluorescein	Acetonitrile	S,R	500 - 550	Щ	540	131	8277	
4,5,6,7-Tetrachlorofluorescein in DI water	DI water	R,C	400 - 540	D,E,F	200	328	15,415	
52926-36A (Cyanine Dye)	Acetonitrile	R,C	450 - 600	<b>LL</b>	554	2511		
	Acetonitrile	R O	500 - 700	F.G.H.I	650	3772		
	Acetonitrile	R,C	500 - 750	A,L,I,K	604,704	417,382		
9 - Fluorenone	Acetonitrile	C,R	<320	BC	296	266		
	Acetonitrile	S, R,	400 - 550	D E	494	1439	55698	
	Acetonitrile	S. S.	400 - 500	D,C	458	615		
	Acetonitrile	S,S	500 - 700	1,H,D	630	1346	50380	
	DI water	, a	450 - 700	H	600,650	1200	36500	
D Azure C	Acetonitrile		500 - 650	. I	608	748	26949	
		;	,,,,	;	>	)  -		

SRC Curing Resource Center - Microsoft IE5.0/3M			in the state of th	2		
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Curing Resource Center		VU	UV Stabilizer			
Integrated Solutions to Customer's Curing Needs	Cullapse Expand					
	Name	/avelength (nm) Wavele	ngth Region Lambda	max (nm) Ext (	Solvent Used Abs. Wavelength (nm) Wavelength Region Lambda max (nm) Ext. Coef (WK6) Real Ext. (I/mel cm)	of cm)
	Cyasorb UV9	<380	A,B,C	788	495	
Поле		<380	A,B,C	292	284	
		<260	⋖	204	227	
Interactive Photo Curing System	-	<270	∢	204	220	
		<b>&lt;380</b>	A,B,C	336	470	
Technical Notes Contacts	D Tinuvin 1130 Acetonitrile	<b>~</b> 400	A,B,C	340	190	
	Tinuvin 144 Acetonitrile	<b>~</b> 300	¥	276	16.7	
		<270	¥	208	36	
Views By Name		×400	A,B,C	340	253	
	Tinuvin 770DF Acetonitrile	<260	¥	208	5	
Substrates Substrates Light	Tinuvin 900 Acetonitrile	<400	A,B,C	342	272	
(m) corors		380	A,B,C	340	517	
Photo UV Stabilizer:	D UV-24 Acetonitrile	<b>~</b> 400	A,B,C	286	320	
Linkalors	Dyinul 4050H Acetonitrile	<260	¥	206	280	
Wavelongth Region Views	Next Previous	•	-			
Combined Substrates Sources	Select Next or Previous to view additional Substrates, Photoinitiators or Light; sources.	Substrates, Photoinitia	tors or Light: Sources	1-	AG rook!	
Photo (IV Stabilizers buitators						
					accidence of the second	and the second
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Figure 3

mission Wavelength Region

	Substrate Tested	Color of Substrate		Transmission Wavel	Wavelength Region
	3M Microflex 8025-1115 80-6104-6609-8	orange,Cu traces	2-2.8 mil	> 465	F,G,H,I,J,K
	ABS (Sample 1)	cream,opaque	0.13	> 400	E,F,G,H,I,J,K
_	ABS (sample 2)	cream,opaque	0.122	> 400	F,G,H,I,J,K
	Acrylic	colorless, clear	0.111	> 370	D,E,F,G,H,I,J,K
_	Al CD disk (40nm)	reflected mirror	40 nm	> 300	B,C,D,E,F,G,H,I,J,K
_	Al CD disk (45nm)	reflected mirror	45 nm	> 300	B,C,D,E,F,G,H,I,J,K
25		reflected mirror	50 nm	> 300	B,C,D,E,F,G,H,I,J,K
B	Al on BET	reflected mirror	3 mil	> 320	B,C,D,E,F,G,H,I,J,K
_	Alumina	opaque white	0.034	> 330	C,D,E,F,G,H,I,J,K
3	BT Epoxy	opaque brown	0.063	> 520	G,H,I,J,K
	Canvas	natural	32 mil	> 400	D,E,F,G,H,I,J,K
24	Diamond Grade Sheeting	reflected mirror	22 mil	> 400	D,E,F,G,H,I,J,K
	FR4 with green solder mask	green	0.062	> 400	E,F,I,J,K
	GFRP precision punch	light yellowish-green,translucent	0.135	> 360	D,E,F,G,H,I,J,K
L	GFRP (FR4)	light yellowish-green,translucent		> 360	D,E,F,G,H,I,J,K
	Glass slide	clear,colorless	0.222	> 310	C,D,E,F,G,H,I,J,K
	Halar ethylene-chlorotrifluoroethylene ECTFE film	hazy colorless (off-white)	19 mil	230 - 275,> 280	A,B,C,D,E,F,G,H,I,J,K
	HDPE	white	0.127	> 280	B,C,D,E,F,G,H,I,J,K
2	Kapton	orange,transparent	0.6 mil	> 435	E,F,G,H,I,J,K
		hazy colorless	15 mil	> 200	A,B,C,D,E,F,G,H,I,J,K
	Mirror Multi-layer film	reflected mirror	2 mil	> 200	A,B,C,D,K
	Multi-layer film	multi color	2 mil	>200	B,C,D,E,H,I,J,K
	One layer Security System card	opaque white	21 mil	> 400	D,E,F,G,H,I,J,K
	PC	opaque white	15 mil	415 - 530 ,> 600	E,H,I,J,K
<b>_</b>	PC Hyzod FD-9200	colorless,clear	0.116	> 280	C,D,E,F,G,H,i,J,K
FR :	PC Lexan 9034 PCB w/ green solder mask (spl 1)	colorless, clear	0.119	> 390	D,E,F,G,H,I,J,K
255 E	PCB w/ green solder mask (spl 1)	green,no traces,board only	0.033 0.066	400 - 600 ,> 660 400 - 610,>660	E,F,I,J,K
2022	PCB w/ green solder mask (spl 3)	green green	0.066	400 - 600 ,> 660	E,F,I,J,K E,F,J,K
	PCB w/ green solder mask (spl 4)	green,ground plane stripes 1/4" across	0.066	400 - 600 ,> 660	E,F,G,J,K
9	PCB w/ green solder mask (spl 5)	green (yellowish tone)	0.063	> 450	E,F,G,J,K
9	PCB w/ green solder mask (spl 6)	green (bluish tone)	0.068	400 - 600 ,> 670	E,F,J,K
1	PETG	opaque white	22 mil	> 400	D,E,F,G,H,I,J,K
D	Polyimide	opaque dark brown	0.074	> 520	G,H,I,J,K
a	Polypropylene	translucent white	0.128	> 280	C,D,E;F,G,H,I,J,K
9	Teflon	opaque white	0.161	> 200	A,B,C,D,E,F,G,H,I,J,K
9	TPX polymethylpentene PMP film	hazy colorless	11 mil	230 - 275 ,> 280	A,B,C,D,E,F,G,H,I,J,K
<u></u>	Two layer Security System Card	opaque white	13 mil	> 420	D,E,F,G,H,I,J,K
a	Udel polysulfone Thermalux film	hazy colorless (off-white)	10 mil	> 310	C,D,E,F,G,H,I,J,K
9	UHMWPE	sl translucent white	0.14	> 280	C,D,E,F,G,H,I,J,K
	Ultem 1000 polyetherimide sample 1	amber,transparent	0.13	> 415	E,F,G,H,I,J,K
	Ultem 1000 polyetherimide sample 2	amber,transparent	0.122	> 430	E,F,G,H,I,J,K
ð		amber,transparent	8 mil	> 400	D,E,F,G,H,I,J,K
	Ultern (filled) Mint-Pac by Circuit Wise	amber,translucent	0.064	> 410	F,G,H,I,J,K
	Ultrason E polyethersulfone PES film	hazy amber	10 mil	> 300	C,D,E,F,G,H,I,J,K
	UVPS	orange,transparent	3 mil	310 - 400,> 470	F,G,H,I,J,K
	Victrex PEEK Film polyetheretherketone	amber,hazy transparent	10 mil	> 390	D,E,F,G,H,I,J,K
_	Vinyl card	opaque white	30 mil	> 410	D,E,F,G,H,I,J,K
D	Vinyl film	clear	7.5 mil	> 380	D,E,F,G,H,I,J,K

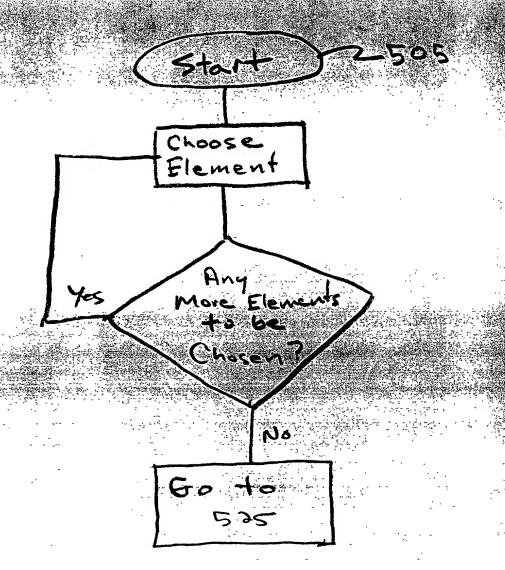
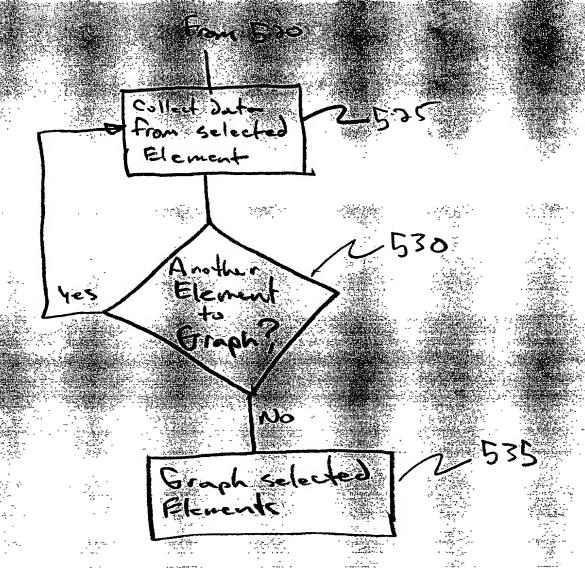


Figure 4A



Firm 4B

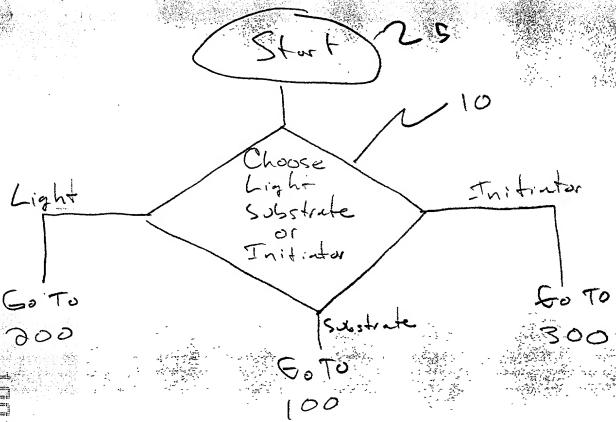
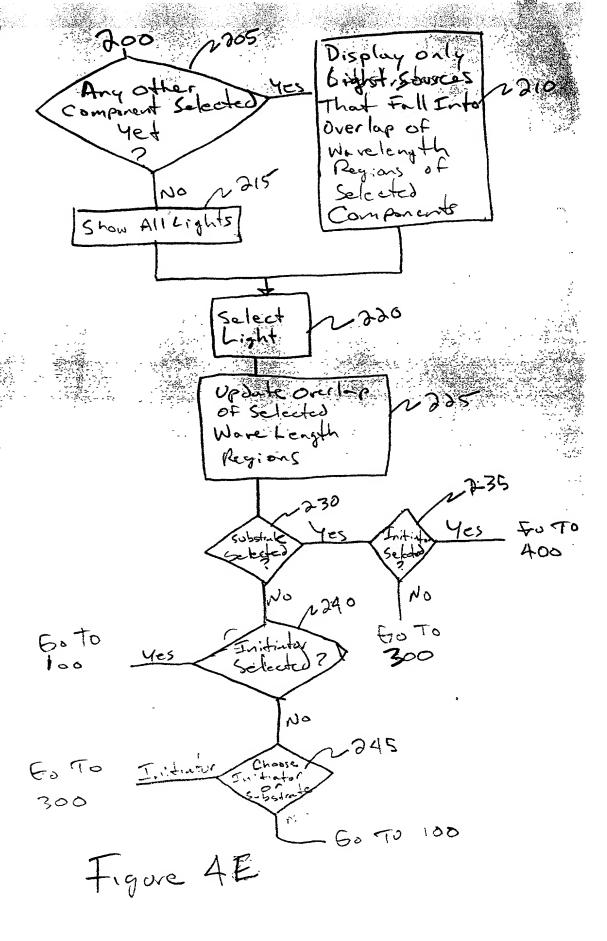


Figure 4F



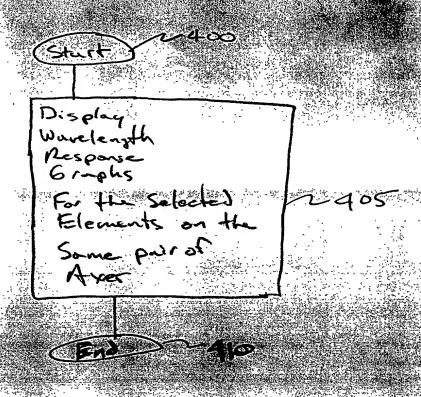


Figure 4

Figure 5A

#### Light Source Profile

Picture of Light Source:

**Light Sources:** 

Fusion D Bulb

Emiss. Wavelength 300 - 450, 500 - 600

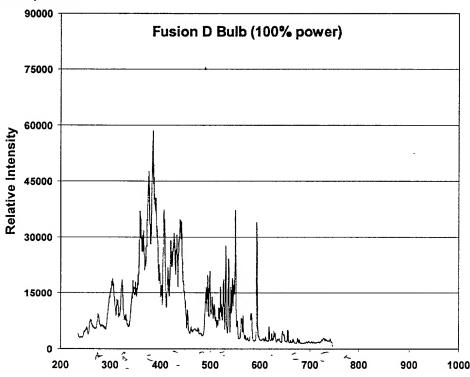
Wavelength

B, C, D, F, G

Region: Intensity: Notes:

Fusion D 100.xls

**Emiss Spectrum:** 



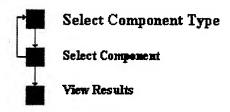
Emiss Data (Enter data from frequencies 200 - 1000 only. Enter data separated ba a coma and one space (i.e. 12.3, 32.1): 4371, 3681, 4423, 4041, 4026, 4369, 4010, 4228, 3519, 4111, 3627, 4240, 3962, 3797, 3989, 4447, 3831, 3689, 3860, 3839, 4266, 3601, 3955, 4401, 3722, 3732, 3956, 4012, 3506, 3899, 4133, 4359, 4452, 3584, 4151, 3963, 3765, 3692, 3927, 4447, 3759, 3826, 4215, 3946, 3853, 4117, 4283, 3644, 3793, 3609, 3810, 4253, 3981, 4295, 3881, 3604, 3679, 3791, 3519, 3888, 4435, 3511, 4463, 3632, 4161, 3553, 4280, 3803, 3590, 3769, 4096, 4095, 3157, 3210, 3202, 3285, 3130, 3130, 2986, 3018, 3082, 3306, 3263, 3302, 3106, 3109, 3042, 3115, 3082, 3266, 3263, 3530, 3749, 4239, 4413, 4841, 4757, 4922, 4423, 4687, 4975, 5386, 5045, 5378, 5474, 5935, 5550, 5610, 4778, 4176, 3786, 3906, 3883, 4203, 4462, 5436, 6021, 7066, 7135, 7701, 7402, 7829, 7338, 7530, 6794, 6843, 6405, 6634, 6042, 6018, 5783, 6329, 5930, 5807, 5502, 5727, 5461, 5688, 5247, 5570, 5405, 5567, 5386, 5781, 5637, 6314, 6370, 7090, 7391, 8362, 8474, 9376, 8810, 9034, 8309, 8352, 7302, 7060, 6442, 6592, 5953, 6332, 6213, 6414, 6010, 6346, 6202, 6452, 6059, 6397, 6143, 6287, 5829, 6186, 6000, 6133, 5463, 5397, 5360, 5941, 5456, 5218, 5120, 5882, 6010, 6826, 6847, 7690, 8224, 9277, 9379, 10762, 10314, 11424, 12000, 13370, 12474, 13928, 13594, 14824, 14734, 16098, 15146, 16235, 15923, 18144, 17212, 17789,

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Maximum Frequency (Enter 1000 or smaller if the frequency range is less than 1000): 746

### Select a Substrate, Light Source, and/or Photo Initiator Type



This process allows you to select up to three components to view together. For each component, you must first select a component type. There are three types of components to select from (Substrate, Photo Initiator, or Light Source). After selecting the desired component type, you can then select a component of that type.

- Select the first component type from the drop-down list below and click the Next > button.

Select the first component type:



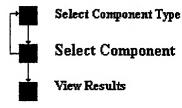


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Figure 6A

## Select a Substrate, Light Source, and/or Photo Initiator



- If you want to view more components, select a component of the selected type from the drop-down list below and click the Next > button.
- If you want to view the current component(s), select a component of the selected type from the drop-down list below and click the Finish button.
- If you want to select a different component type, click the < Back button.</li>

Select a Substrate:



CBack Next> View Overlay

Figure 6B

## Select a Substrate, Light Source, and/or Photo Initiator **Type**

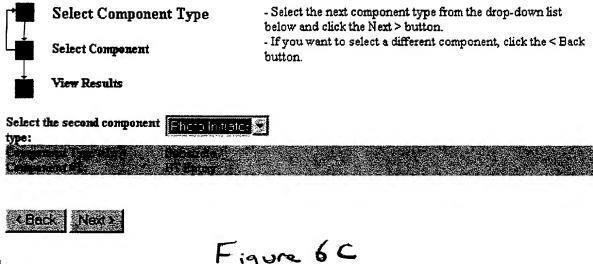
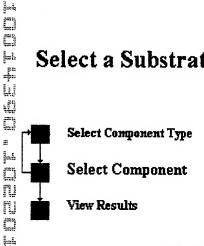


Figure 6C

## Select a Substrate, Light Source, and/or Photo Initiator



- If you want to view more components, select a component of the selected type from the drop-down list below and click the Next > button.
- If you want to view the current component(s), select a component of the selected type from the drop-down list below and click the Finish button.
- If you want to select a different component type, click the <</li> Back button.

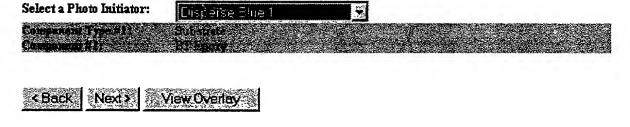
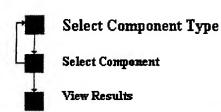
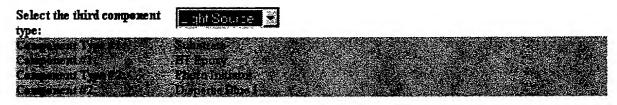


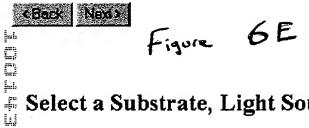
Figure 6D

### Select a Substrate, Light Source, and/or Photo Initiator Type

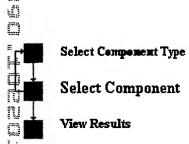


- Select the next component type from the drop-down list below and click the Next > button.
- If you want to select a different component, click the < Back button.

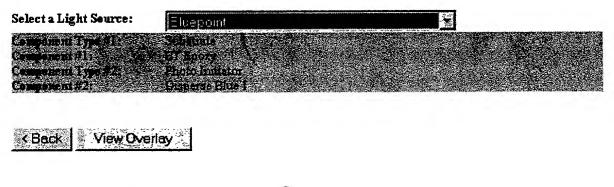




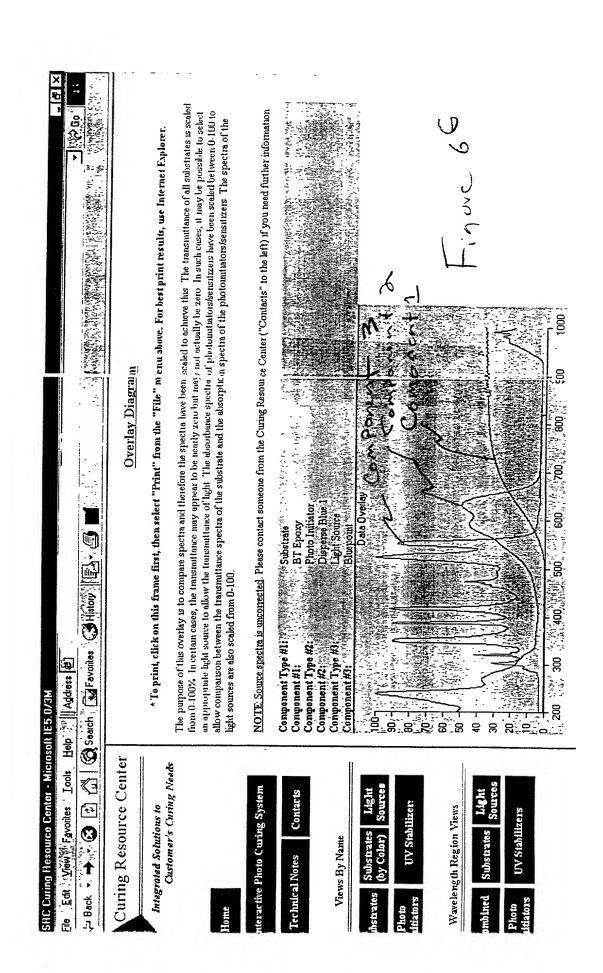
## Select a Substrate, Light Source, and/or Photo Initiator



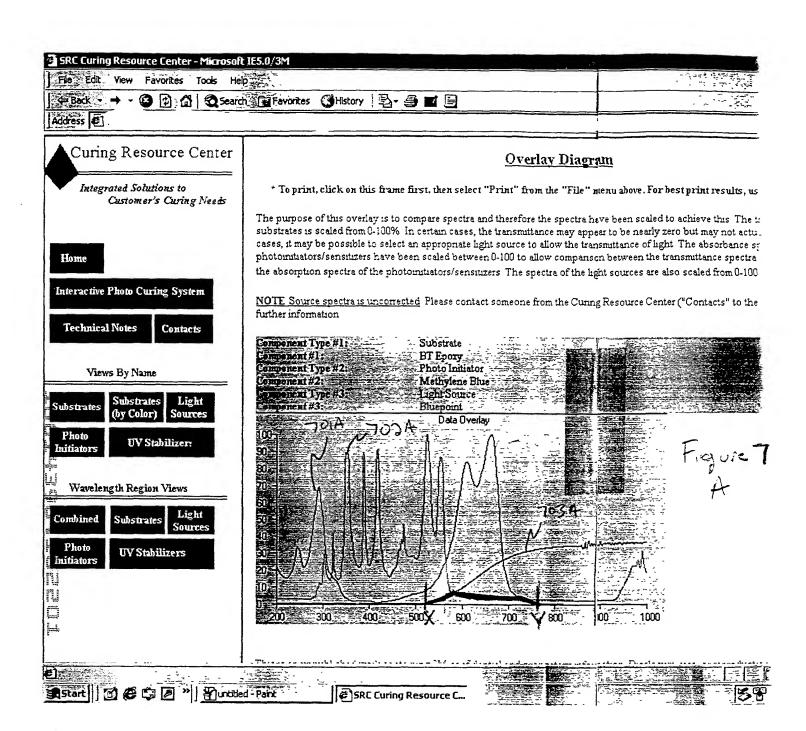
- If you want to view more components, select a component of the selected type from the drop-down list below and click the Next > button.
- If you want to view the current component(s), select a component of the selected type from the drop-down list below and click the Finish button.
- If you want to select a different component type, click the < Back button.

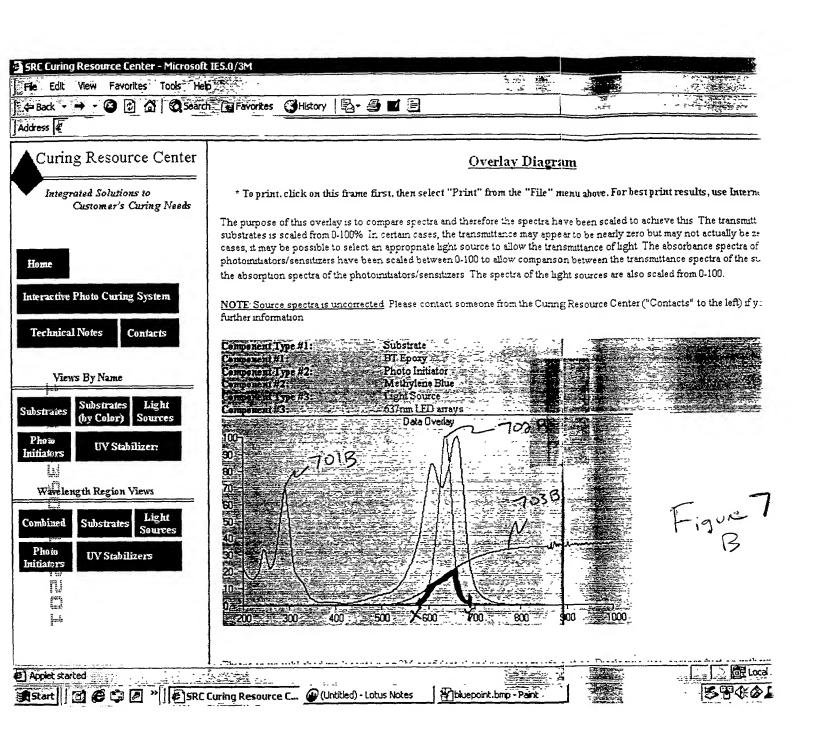


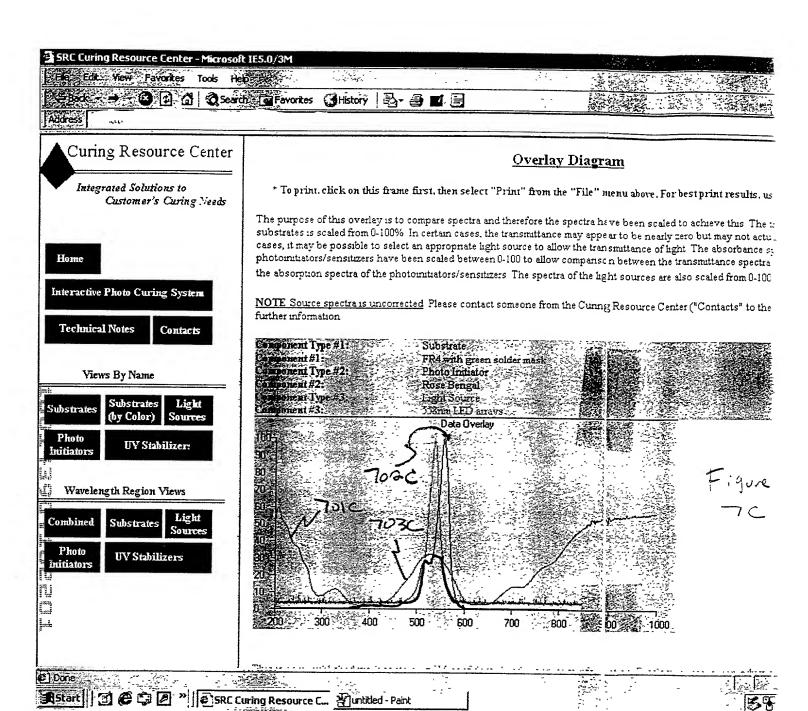
6 F Figure

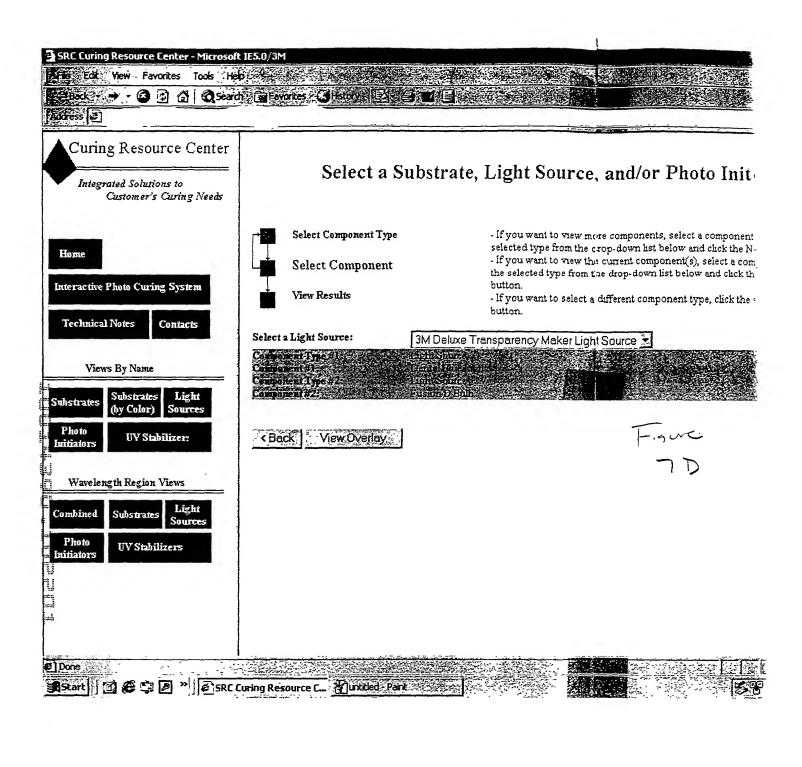


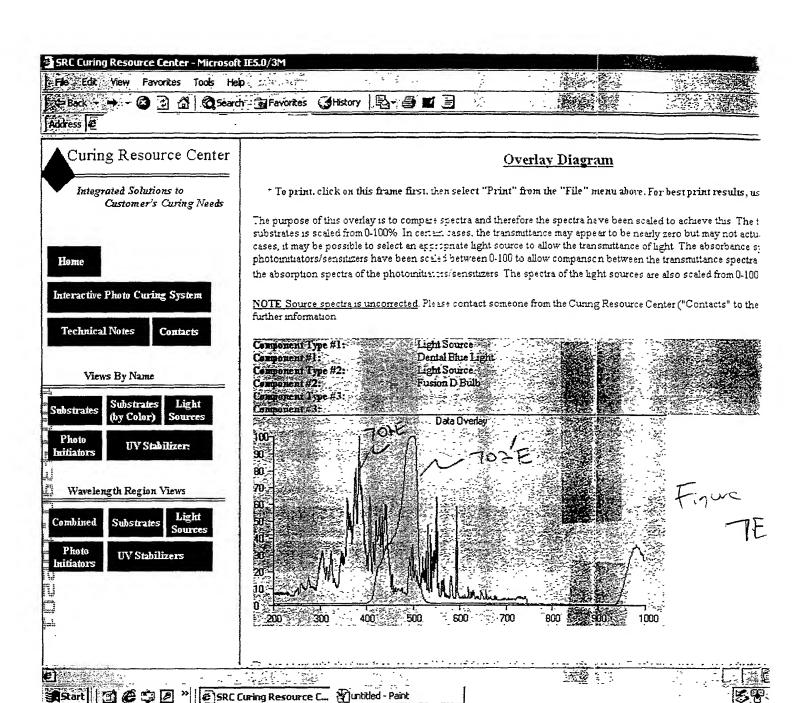
Start Welcome - Lotus Notes

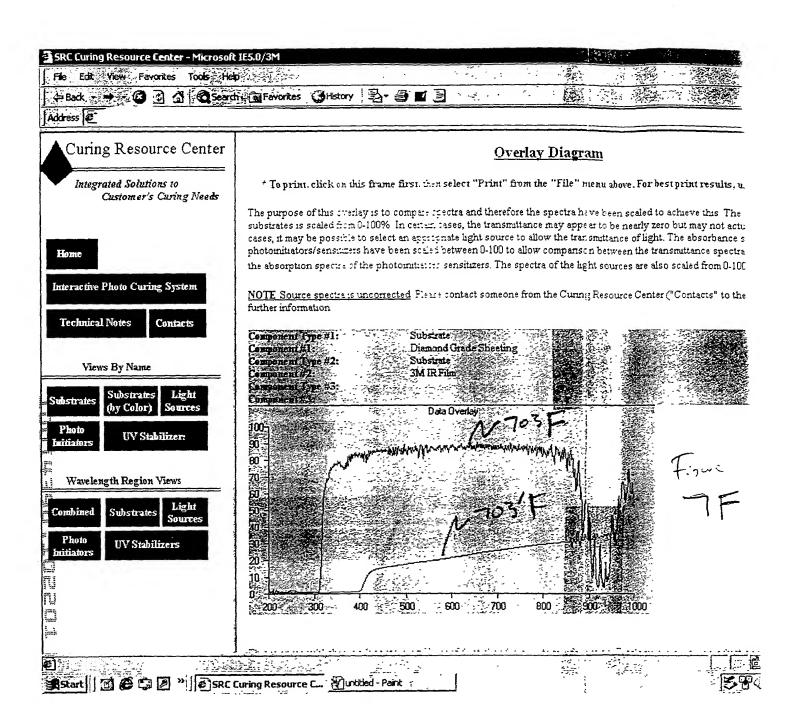


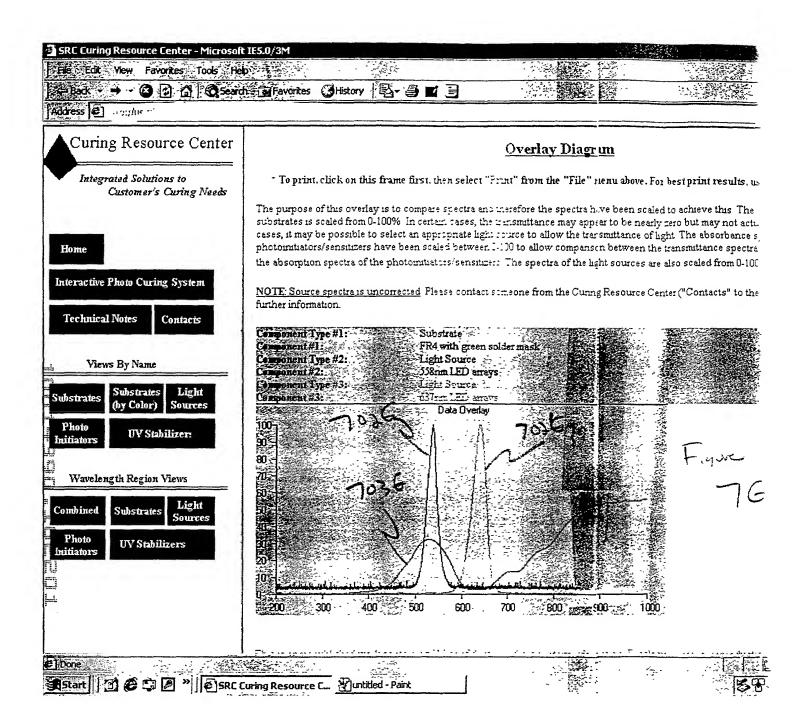












区域 (3) 11 20 11 ducade proprieta 100 SbF6 900 CD1012 (0.0#6%) in Acetonitrile (1cm pathlength) 800 20 9 C12H25-CH-CH2-O-Photo Initiator Profile Picture of Photo Initiator 200 **4**00 300 CD1012 (iodonium SbF6) in Acetonitrile.xls = 9 sonsdno≥dA ======= ~ # 9 7.0 70 CD1012 (diaryliodonium ShF6) | 中国 Book o - ディス) (1) | (1) | (2) | Cottach で Javanin - 光 Jahana | 12 | - 重り Acetonitule Initiator A <330 250 150 | Second of the control of the second of the second control of the second of the secon Abs. Wave.(nm): Lambdamax (nm): Ext.coef. (W%): Real Ext. (I/mol cm): Curing Mechanism: Wavelength Region: Elec Edil Van Heavouer Took Abor | | | Adder | The state of the s Type: Solvent Used: Abs. Spectrum: % Purity: SRC Curing Resource Center - Microsoft 1E5.0/3M Name: Curing Resource Center Customer's Curing Needs Substrates Light (by Color) Sources Interactive Photo Curing System Contacts UV Stabilizer: Integrated Solutions to Wavelength Region Views UV Stabilizers Substrates Views By Name Technical Notes Photo Initiators Substrates Photo Initiators Combined Home

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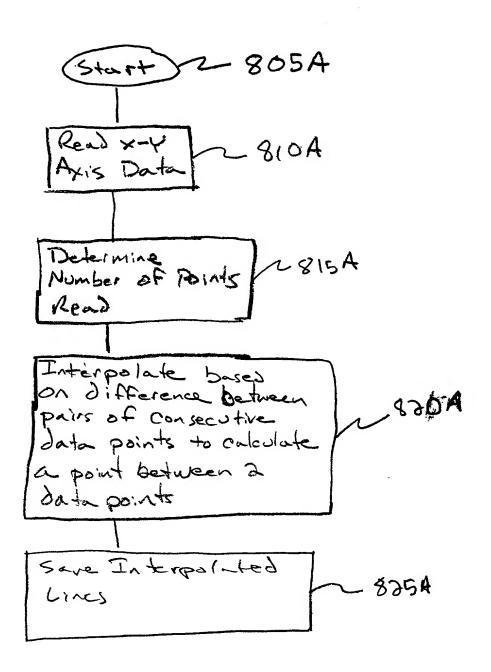


Figure 8A

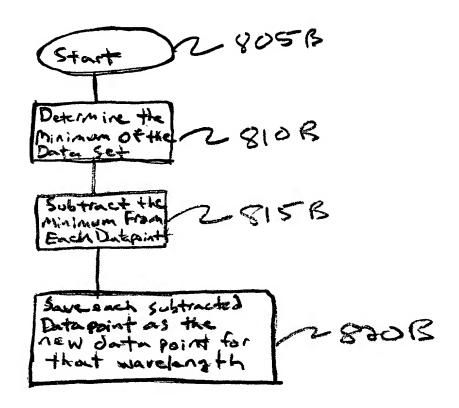


Figure 8B

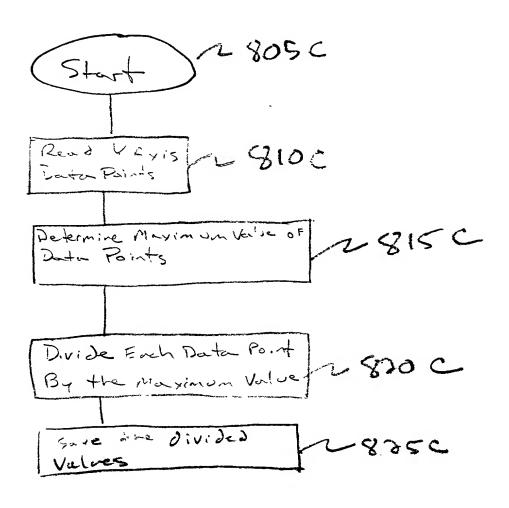


Figure 8C

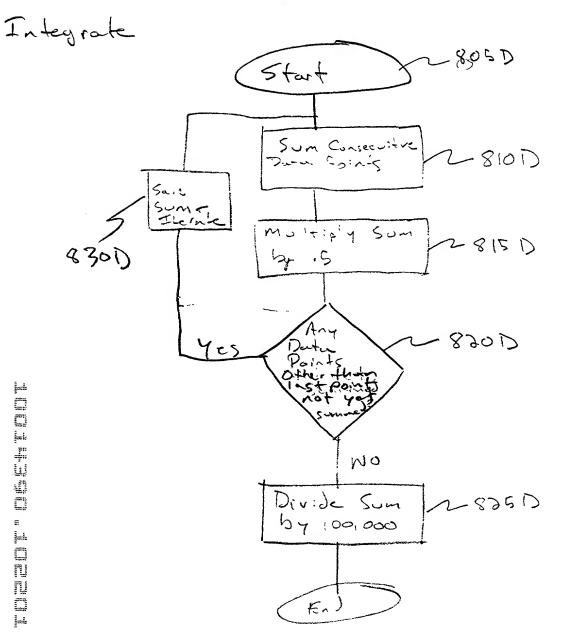


Figure 8D

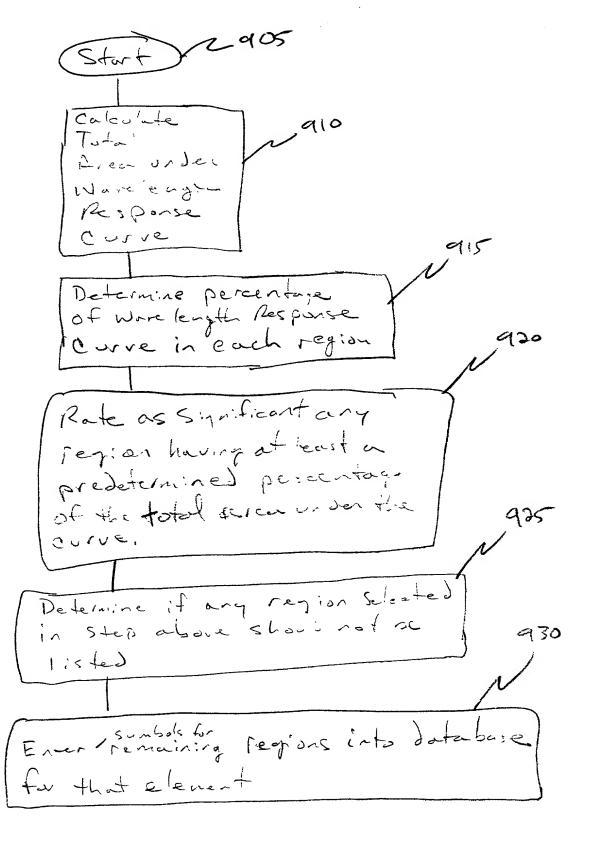


Figure 9

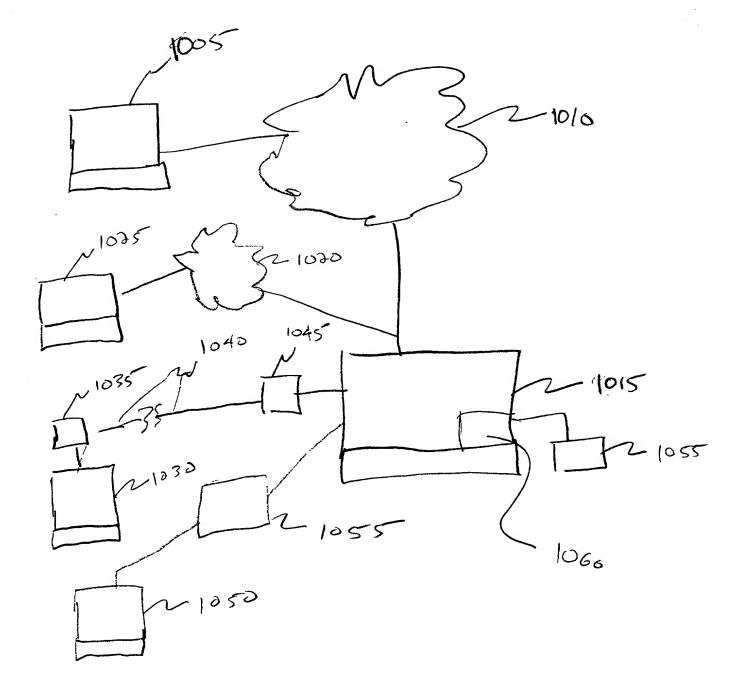


Figure 10

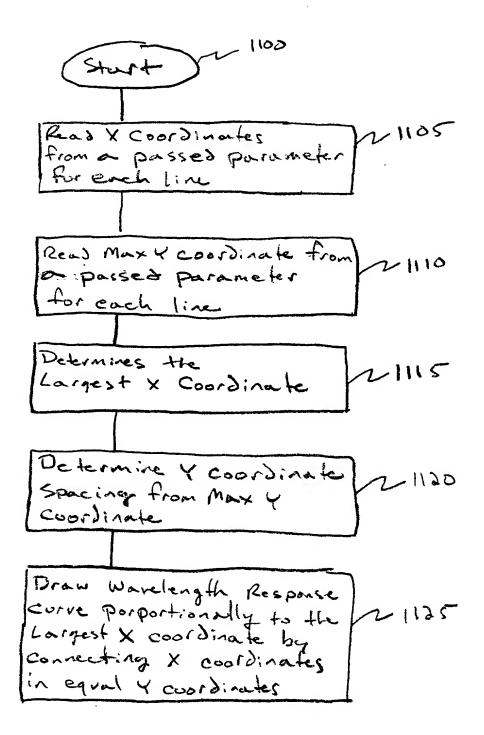


Figure 11.